

Proposal Full View

Print

Applicant Information

Organization Name Santa Ana Watershed Project Authority *

Tax ID 952899964

Proposal Name Santa Ana One Water One Watershed IRWM Prop 84, Round 1 Implementation Proposal *

Proposal Objective This project portfolio will implement the first phase identified in the Santa Ana River Watershed's One Water One Watershed (OWOW), Integrated Regional Water Management Plan (IRWM). With input and direction from the OWOW Steering Committee, a group of leaders from government, water agencies, the business and environmental community, the Santa Ana Watershed Project Authority (SAWPA,) as the accepted Regional Water Management Group (RWMG) through the RAP for the Santa Ana Region, has developed a portfolio of 13 projects that are 1) ready to implement in a timely manner and 2) address strategies identified in the OWOW plan. The project portfolio integrates projects across geographic boundaries and provides multiple benefits to the region. In addition, with the exception of specific tribal benefits, this portfolio addresses all statewide water priorities. Thirteen lead agencies from across the region will be constructing projects that when complete will offset up to 5% of projected imported water demand for the region. These projects can be placed in three groups based on primary project benefits. Three projects will enhance the use of recycled water and provide additional groundwater recharge. Four projects improve flood management/ habitat while improving surface water quality. Five projects will provide additional salt removal and groundwater quality improvement. The portfolio was developed from the OWOW IRWM plan ranked project list. Projects were objectively ranked using a mathematical tool based criteria developed and weighted in relative importance by the OWOW Steering Committee. Based on Committee direction an independent review panel, then reviewed in detail, the top 25 projects considered ready to implement. Each lead agency was allowed to have one project on the top 25 list. The panel reviewed supporting project information, conducted detailed interviews with proponents, and considered OWOW objectives when developing a project portfolio. *

Budget

Other Contribution	\$11,000,000.00
Local Contribution	\$234,043,626.00
Federal Contribution	\$11,117,500.00
Inkind Contribution	\$0.00
Amount Requested	\$12,666,666.00 *
Total Project Cost	\$268,827,792.00 *

Geographic Information

Latitude * DD(+/-) 33 MM 53 SS 46

Longitude * DD(+/-) 117 MM 28 SS 59

Longitude/Latitude Clarification Location Santa Ana River Watershed

County Los Angeles, Orange, Riverside, San Bernardino *

Ground Water Basin Upper Santa Ana Valley-Temescal, Upper Santa Ana Valley-Yucaipa, Bear Valley, Big Meadows Valley, Coastal Plain Of Orange County, Elsinore, Hemet Lake Valley, San Jacinto, Seven Oaks Valley, Upper Santa Ana Valley, Upper Santa Ana Valley-Bunker Hill, Upper Santa Ana Valley-Cajon, Upper Santa Ana Valley-Chino, Upper Santa Ana Valley-Cucamonga, Upper Santa Ana Valley-Rialto-Colton, Upper Santa Ana Valley-Riverside-Arlington, Upper Santa Ana Valley-San Timoteo

Hydrologic Region South Coast

Watershed 49 4801 Santa Ana River; 50 4802 San Jacinto Valley; 48 4481 Santa Ana River

Legislative Information

Assembly District 56th Assembly District, 59th Assembly District, 60th Assembly District, 61st Assembly District, 62nd Assembly District, 63rd Assembly District, 64th Assembly District, 65th Assembly District, 66th Assembly District, 67th Assembly District, 68th Assembly District, 69th Assembly District, 70th Assembly District, 71st Assembly District, 72nd Assembly District, 80th Assembly District *

Senate District 17th Senate District, 18th Senate District, 29th Senate District, 30th Senate District, 31st Senate District, 32nd Senate District, 33rd Senate District, 34th Senate District, 35th Senate District, 36th Senate District, 37th Senate District *

US Congressional District District 26 (CA), District 38 (CA), District 39 (CA), District 40 (CA), District 41 (CA), District 42 (CA), District 43 (CA), District 44 (CA), District 45 (CA), District 46 (CA), District 47 (CA), District 48 (CA), District 49 (CA) *

Project Information

Project Benefits Information

Project Name Project (g) Cactus Basin (SBCFCD)

Project Benefit Type	Benefit Type	Measurement	Description
Primary	Flood Protection	700	This project will reduce local flooding and downstream flooding because of increased basin capacity and improved function of the inlets and outlet facilities and will improve the basin to its' ultimate condition and capacity.
Secondary	Water Storage -- Groundwater-Recharge area developed	15000	The basin will have recharge capacity; there will be a berm separating basins 3 & 3A, and 3A can be used for recharge.
Tertiary	Water Storage -- Surface-Water Supply Enhancement	15000	The temporary surface storage capacity of the basin will be increased due to the additional capacity of the improved basin

Budget

Other Contribution	0
Local Contribution	8197202
Federal Contribution	0
Inkind Contribution	0
Amount Requested	1055556
Total Project Cost	9252758

Geographic Information

Latitude DD(+/-)	34	MM 8	SS 35
Longitude DD(+/-)	117	MM 23	SS 31
Longitude/Latitude Clarification	Location The proposed project is situated in the north-central portion of the City of R		

County	Riverside,San Bernardino
Ground Water Basin	Upper Santa Ana Valley-Bunker Hill,Upper Santa Ana Valley-Chino,Upper Santa Ana Valley-Rialto-Colton
Hydrologic Region	South Coast
WaterShed	49 4801 Santa Ana River

Legislative Information

Assembly District	62nd Assembly District,66th Assembly District
Senate District	31st Senate District,32nd Senate District
US Congressional District	District 43 (CA),District 44 (CA)

Project Information**Project Benefits Information**

Project Name

Project (h) Inland Empire Brine Line Rehabilitat

Project Benefit Type	Benefit Type	Measurement	Description
Primary	Desalination-Water Supply Enhancement	23295	The project allows for greater groundwater desalting in the Inland Empire by increasing the capacity of the Brine Line. The desalination process produces a local source of potable water by taking unusable groundwater and treating through RO.
Secondary	Desalination-Other	30404	The Brine Line is the only cost effective method of removing salt from the watershed. The additional capacity in the brine line will allow an additional 30,404 tons per year of salt removal from the watershed based on current brine TDS.

Budget

Other Contribution	6000000
--------------------	---------

Local Contribution	4216831
Federal Contribution	0
Inkind Contribution	0
Amount Requested	1055556
Total Project Cost	11272387
Geographic Information	
Latitude DD(+/-)	33 MM 53 SS 42
Longitude DD(+/-)	117 MM 37 SS 3
Longitude/Latitude Clarification	Location City of Corona
County	Riverside
Ground Water Basin	Upper Santa Ana Valley-Chino,Upper Santa Ana Valley-Temescal
Hydrologic Region	South Coast
WaterShed	49 4801 Santa Ana River

Legislative Information

Assembly District	71st Assembly District
Senate District	37th Senate District
US Congressional District	District 44 (CA)

Project Information**Project Benefits Information**

Project Name

Project (j) Perris II Desalination Facility (EMWC)

Project Benefit Type	Benefit Type	Measurement	Description
Primary	Water and Sediment Quality-Other	8.50	Construction and operation of a brackish water production well providing feed water to desalination facilities
Primary	Desalination-Water Supply Enhancement	1000	Construction and operation of a brackish water production well providing feed water to desalination facilities
Primary	Desalination-Other	2000	Construction and operation of a brackish water production well providing feed water to desalination facilities
Primary	Water Storage -- Groundwater-Water Supply Enhancement	700	Construction and operation of a brackish water production well providing feed water to desalination facilities
Secondary	Water Use Efficiency - Conservation-Water Supply Enhancement	700	Construction and operation of a brackish water production well providing feed water to desalination facilities

Budget

Other Contribution	0
Local Contribution	1212442
Federal Contribution	0
Inkind Contribution	0
Amount Requested	1055556
Total Project Cost	2267998

Geographic Information

Latitude DD(+/-)	33	MM 48	SS 6
Longitude DD(+/-)	117	MM 9	SS 32
Longitude/Latitude Clarification	Location	Northeast corner of the intersection of Chase Avenue and Nuevo Road, Pe	
County	Riverside		
Ground Water Basin	San Jacinto		

Hydrologic Region	South Coast
WaterShed	50 4802 san Jacinto Vall

Legislative Information

Assembly District	65th Assembly District
Senate District	37th Senate District
US Congressional District	District 45 (CA),District 49 (CA)

Project Information**Project Benefits Information**

Project Name	Project (f) Mill Creek Wetlands (C. Ontario)			
	Project Benefit Type	Benefit Type	Measurement	Description
	Primary	Water and Sediment Quality-Other	2800	The Project proposes to treat on average, 2700 af/year of stormwater run-off through a natural water treatment system that utilizes physical and biological processes, in conjunction with targeted residence times to provide treatment.
	Primary	Sediment Removal-Other	1390	Estimated Total Suspended Solid (TSS) removal of 1390 tons per year.
	Primary	Stormwater Flood-Water Supply Enhancement	5600	The Project proposes to treat on average, 4200 af/year of stormwater run-off through a natural water treatment system that utilizes physical and biological processes, in conjunction with targeted residence times to provide treatment.
	Primary	Stormwater Flood-Other	6	Based on annual average capture volume this project will treat 6 (mgd) of runoff.
	Secondary	Ecosystem: Shallow Water/ Marsh/ Wetland Habitat	40	The Project proposes to transform a currently fallow and under utilized piece of land into a natural water quality treatment system that creates habitat for native and endangered species through the creation of wetlands.
	Tertiary	Public Access/Recreation	40	The Project has a recreational value with 2.5 miles of hiking and equestrian trails with shaded benches, educational opportunities, and lookout areas for visitors to observe the acres of native habitat and wildlife.
	Quaternary	Water Storage -- Surface-Water Supply Enhancement	160	Additional 160 AF of storage will be made available behind the Prado Basin through the construction of the ponds and forebay and the exportation of approximately 1 million cubic yards of dirt.

Budget

Other Contribution	5000000
Local Contribution	14355000
Federal Contribution	0
In-kind Contribution	0
Amount Requested	1055556
Total Project Cost	20410556

Geographic Information

Latitude DD(+/-)	33	MM 56	SS 49
Longitude DD(+/-)	117	MM 36	SS 40
Longitude/Latitude Clarification	Location Located in Chino, CA. Bisected by Chino Corona Road, the Project is located within the 566 contour of the Prado Basin.		
County			
Ground Water Basin			
Hydrologic Region			
WaterShed			

Legislative Information

Assembly District	61st Assembly District,71st Assembly District
Senate District	29th Senate District,32nd Senate District,37th Senate District
US Congressional District	District 42 (CA),District 43 (CA),District 44 (CA)

Project Information**Project Benefits Information**

Project Name

Project (k) Perchlorate Wellhead Treatment Sy

Project Benefit Type	Benefit Type	Measurement	Description
Primary	Water and Sediment Quality-Other	1650	Targeted salt-contaminants removed annually will be approximately 110 tons, while over the 15 year minimal life of the project, this will equate to approximately 1,650 tons of targeted salt-contaminants removed.
Primary	Water Quality: Constituents -- Salinity	5400	Assuming a conservative 30 percent of this well water is consumed indoors as wastewater, then the amount of salt reduction from this Project would be 30% of 18,000 tons or 5,400 tons of TDS reduction.
Primary	Water Quality Treatment Technology	64544	The Project will restore water supply lost due to water quality impairment and decrease reliance on imported water. The amount of water supply to be restored is 4,302 AF/yr, or over 15 years, approximately 64,544 AF

Budget

Other Contribution	0
Local Contribution	541000
Federal Contribution	0
Inkind Contribution	0
Amount Requested	1055556
Total Project Cost	1596556

Geographic Information

Latitude DD(+/-)	34	MM 7	SS 16
Longitude DD(+/-)	117	MM 23	SS 13
Longitude/Latitude Clarification	Location The Project location is within the West Valley Water District (District) and the		

County	Riverside, San Bernardino
Ground Water Basin	Upper Santa Ana Valley-Bunker Hill, Upper Santa Ana Valley-Chino, Upper Santa Ana Valley-Rialto-Colton, Upper Santa Ana Valley-Riverside-Arlington
Hydrologic Region	South Coast
WaterShed	49 4801 Santa Ana Rive

Legislative Information

Assembly District	62nd Assembly District, 66th Assembly District
Senate District	31st Senate District, 32nd Senate District
US Congressional District	District 43 (CA), District 44 (CA)

Project Information**Project Benefits Information**

Project Name

Project (l) Chino Creek Wellfield Development

Project Benefit Type	Benefit Type	Measurement	Description
Primary	Conveyance-Other	3	The project will construct three wells which will deliver water to the Chino I Desalter for treatment and delivery as potable water.
Primary	Desalination-Water Supply Enhancement	2900	The project will pump 2,900 AFY of brackish water from the Chino Basin and deliver to the Chino I Desalter for treatment. This will help achieve hydraulic control of the basin by limiting groundwater overflows into the Santa Ana River.
			Treating the 2,900 AFY from the Chino

Primary	Desalination-Other	3000	Creek Wellfield will remove 3,000 tons of salt from the Chino Basin annually and discharge it through the SARI line
---------	--------------------	------	---

Budget

Other Contribution	0
Local Contribution	5275562
Federal Contribution	0
Inkind Contribution	0
Amount Requested	1055556
Total Project Cost	6331118

Geographic Information

Latitude DD(+/-)	33	MM 58	SS 5
Longitude DD(+/-)	117	MM 38	SS 13
Longitude/Latitude Clarification	Location 7200 Kimball Avenue, 7700 Kimball Avenue, and 8100 Kimball		

County	San Bernardino
Ground Water Basin	Upper Santa Ana Valley-Chino
Hydrologic Region	South Coast
WaterShed	49 4801 Santa Ana River

Legislative Information

Assembly District	61st Assembly District
Senate District	29th Senate District, 32nd Senate District
US Congressional District	District 42 (CA), District 43 (CA)

Project Information**Project Benefits Information**

Project Name	Project (m) Impaired Groundwater Recovery (IRWD)		
Project Benefit Type	Benefit Type	Measurement	Description
Primary	Desalination-Water Supply Enhancement	6330	The project will produce a new local water supply for portion of the Orange County Groundwater Basin which imported water.

Budget

Other Contribution	0
Local Contribution	26277500
Federal Contribution	9092500
Inkind Contribution	0
Amount Requested	1055556
Total Project Cost	36425556

Geographic Information

Latitude DD(+/-)	33	MM 44	SS 2
Longitude DD(+/-)	117	MM 11	SS 38
Longitude/Latitude Clarification	Location The project is located within the city of Tustin, CA but a portion of the finished water pipeline is located in the city of Irvin		

County	
Ground Water Basin	
Hydrologic Region	
WaterShed	

Legislative Information

Assembly District	70th Assembly District
Senate District	35th Senate District
US Congressional District	District 48 (CA)

Project Information**Project Benefits Information**

Project Name

Project (b) Sludge Dewatering, Odor Control, a

Project Benefit Type	Benefit Type	Measurement	Description
Primary	Water Quality Infrastructure-Improved wastewater treatment plant	34	The P1-101 project includes the construction of sludge dewatering facilities to treat the additional sludge produced from new activated sludge wastewater treatment processes and an odor control system.
Primary	Water Use Efficiency - Recycling-Water Supply Enhancement	31000	The Sludge Dewatering, Odor Control, and Primary Sludge Thickening Project at Plant No. 1, will enable OCSD to provide approximately 34 mgd (38,000 afy) more treated wastewater (secondary effluent) as feedwater for the GWRS.

Budget

Other Contribution	0
Local Contribution	136090600
Federal Contribution	2025000
Inkind Contribution	0
Amount Requested	1055556
Total Project Cost	139171156

Geographic Information

Latitude DD(+/-)	33	MM 41	SS 38
Longitude DD(+/-)	117	MM 56	SS 38
Longitude/Latitude Clarification	Location	Plant No. 1 is located in the City of Fountain Valley about four miles r	

County	Orange
Ground Water Basin	Coastal Plain Of Orange County
Hydrologic Region	South Coast
WaterShed	49 4801 Santa Ana River

Legislative Information

Assembly District	67th Assembly District,68th Assembly District,69th Assembly District,72nd Assembly District
Senate District	33rd Senate District,34th Senate District,35th Senate District
US Congressional District	District 40 (CA),District 46 (CA),District 47 (CA)

Project Information**Project Benefits Information**

Project Name

Project (d) Romoland Line A Flood System (C. Meniffee)

Project Benefit Type	Benefit Type	Measurement	Description
Primary	Water Storage -- Surface-Water Supply Enhancement	1000	Removal of 1.61 million cubic yards of soil to form the two below ground detention basins. The basins include an over excavation of 250,000 cubic yards of material to provide additional detention over the 100 year storm storage requirements.
Secondary	Stormwater Flood-Water Supply Enhancement	1785	The two detention basins with their interconnecting channel are situated to capture most of the upstream flows from the mountains and steeper foothills. Flow downstream of the lower basin will be reduced by 80%.
Tertiary	Water Storage -- Groundwater-Recharge area developed	1785	Detention basins are located in the upper end of the watershed where soils have a high infiltration rate which will speed the recharge of the groundwater basin. The height of the water within the basin will increase the infiltration rate.

Quaternary	Public Access/Recreation	60	Two detention basins with their interconnecting channel will be designed with interconnecting trails along the top bank of the channel and along the top of the two detention basins. Juniper Flats Detention Basin will have interior trails
Quinary	Water and Sediment Quality-Other	62300	Detention basins will reduce contaminants, debris and soil by providing a very low internal velocity. Material will settle out and will be removed with the annual maintenance program. Salt removal will be enhanced with selection of plants.
Septary	Flood Protection	640	The Project will remove 640 acres from the FEMA 100 year intensity flood plain. COLMAR and LOMAR documentation will be prepared and submitted to FEMA for remapping of the flood plain as a result of construction of this Project.

Budget

Other Contribution	0
Local Contribution	7400410
Federal Contribution	0
Inkind Contribution	0
Amount Requested	1055556
Total Project Cost	8455966

Geographic Information

Latitude DD(+/-)	33	MM 45	SS 40
Longitude DD(+/-)	117	MM 6	SS 25
Longitude/Latitude Clarification	Location The Project area is located on 6.5 square miles within the 13.7 square mile MDP and is situated with		

County	Riverside
Ground Water Basin	San Jacinto
Hydrologic Region	South Coas
WaterShed	50 4802 Sa

Legislative Information

Assembly District	65th Assembly District
Senate District	37th Senate District
US Congressional District	District 45 (CA)

Project Information**Project Benefits Information**

Project Name Project (e) Santa Ana Watershed Vireo Monitor

Project Benefit Type	Benefit Type	Measurement	Description
Secondary	Threatened or Endangered Species Recovery	300	The Santa Ana Watershed Vireo Monitoring and Breeding Bird Surveys project will support the removal and ongoing restoration of at least 300 acres of invasive, water-thirsty plants from the watershed over the three-year period.

Budget

Other Contribution	0
Local Contribution	268413
Federal Contribution	0
Inkind Contribution	0
Amount Requested	633333
Total Project Cost	901746

Geographic Information

Latitude DD(+/-)	33	MM 59	SS 42
------------------	----	-------	-------

Longitude DD(+/-)	117	MM 9	SS 18
Longitude/Latitude Clarification	Location All riparian habitat and riparian-adjacent areas of the Santa Ana River wa		
County	Riverside,San Bernardino		
Ground Water Basin	Upper Santa Ana Valley-Bunker Hill,Upper Santa Ana Valley-San Timoteo,Upper Santa Ana Valley-Yucaipa		
Hydrologic Region	South Coast		
WaterShed	49 4801 Santa Ana River		

Legislative Information

Assembly District	63rd Assembly District,65th Assembly District
Senate District	31st Senate District,37th Senate District
US Congressional District	District 44 (CA)

Project Information**Project Benefits Information**

Project Name

Project (i) Arlington Desalter Interconnection Project (C. Cor

Project Benefit Type	Benefit Type	Measurement	Description
Primary	Conveyance-Water Supply Enhancement	11202	Transfer and exchange agreement allows for up to 10 MGD of potable water between agencies. Agreement maximizes the regional availability of groundwater as well as increase the reliability and redundancy of the local water supply.
Secondary	Conveyance-Other	10	The Arlington Desalter is a groundwater treatment facility which utilizes reverse osmosis treatment technology to treat high TDS groundwater within the Arlington Groundwater Basin.

Budget

Other Contribution	0
Local Contribution	501908
Federal Contribution	0
Inkind Contribution	0
Amount Requested	421111
Total Project Cost	923019

Geographic Information

Latitude DD(+/-)	33	MM 58	SS 59
Longitude DD(+/-)	117	MM 31	SS 1
Longitude/Latitude Clarification	Location The project site is within the paved portion of Promenade Ave. in the City of Corona. The Arlington Des		

County	Riversi
Ground Water Basin	Upper 5 Santa A
Hydrologic Region	South C
WaterShed	49 4801

Legislative Information

Assembly District	64th Assembly District,66th Assembly District,71st Assembly District
Senate District	31st Senate District,32nd Senate District,36th Senate District,37th Senate District
US Congressional District	District 41 (CA),District 43 (CA),District 44 (CA),District 45 (CA),District 48 (CA)

Project Information**Project Benefits Information**

Project Name

Project (a) Groundwater Replenishment Syster

Project Benefit Type	Benefit Type	Measurement	Description
	Water Use		The achievement of recycled water

Primary	Efficiency - Recycling-Water Supply Enhancement	12000	benefit will be tracked by measuring the amount of additional water supply produced by the groundwater replenishment system.
Secondary	Desalination-Water Supply Enhancement	15200	The achievement of salt/contaminant removal benefit will be tracked by measuring the amount of salts removed through the treatment processes provided by the groundwater replenishment system.
Tertiary	Water Storage -- Groundwater-Recharge area protected	12000	The amount of groundwater recharged into the groundwater basin via recharge basins and injection wells for seawater intrusion barrier serves as an indicator of benefit attainment.
Quaternary	Water Storage -- Groundwater-Water Supply Enhancement	12000	This project enhances conjunctive management and groundwater storage as reflected by the water recharged and stored in the Orange County groundwater basin which, in turn, alleviates and decreases groundwater overdraft.
Quinary	Conveyance-Water Supply Enhancement	12000	This project improves and simplifies operation efficiency by supplying a constant flow of secondary effluent throughout the day, provides operational flexibility and optimizes the water transfer from OC Sanitation District to OCWD.
Septary	Other-Water quality in general	12	This project assists the OC Sanitation District by supplying secondary wastewater effluent for advanced and more rigorous treatment processes at the groundwater replenishment system and by reducing the discharge of wastewater to ocean.

Budget

Other Contribution	0
Local Contribution	27947964
Federal Contribution	0
Inkind Contribution	0
Amount Requested	1052778
Total Project Cost	29000742

Geographic Information

Latitude DD(+/-)	33	MM 41	SS 24
Longitude DD(+/-)	117	MM 56	SS 17
Longitude/Latitude Clarification	Location All riparian habitat and riparian-adjacent areas of the Santa Ana River wa		

County	Orange
Ground Water Basin	Coastal Plain Of Orange County
Hydrologic Region	South Coast
WaterShed	49 4801 Santa Ana River

Legislative Information

Assembly District	67th Assembly District,68th Assembly District,69th Assembly District,70th Assembly District,71st Assembly District,72nd Assembly District
Senate District	33rd Senate District,34th Senate District,35th Senate District
US Congressional District	District 40 (CA),District 42 (CA),District 44 (CA),District 46 (CA),District 47 (CA),District 48 (CA)

Project Information**Project Benefits Information**

Project Name Project (c) East Garden Grove Wintersburg Chann

Project Benefit	Benefit Type	Measurement	Description
-----------------	--------------	-------------	-------------

Type			
Primary	Water Storage -- Conjunctive-Water Supply Enhancement	1330	The water will be treated to a level so that it can be used for irrigation of public landscape areas in the central park which will reduce the demand on existing water supplies.
Primary	Water Use Efficiency - Conservation-Water Supply Enhancement	1330	Diversion of up to 3 MGD of urbdry-weather nuisance flows, which this water is considered a waste stream, and then treated through natural treatment system so it can be reclaimed as a new non-potable water source.
Primary	Watershed Protection-Other	1	Pollutant delivered from the dry-weather urban runoff will be completely eliminated from discharging into the sensitive downstream receiving waters. diverted flows will be treated through a natural treatment system for reclamation.
Secondary	Ecosystem: Shallow Water/ Marsh/ Wetland Habitat	8	Construction of spealized natural wetland treatment trains will provide restored riparian habitat to upgrade the existing natural ecosystem in Central Park as well as a year round functional lake system with the associated aquatic habitat.
Tertiary	Stormwater Flood- Water Supply Enhancement	1330	Capture and divert from 1 MGD to 3MGD of urban dry-weather flows from a regional flood cotnrol channel in a 22 square mile fully urbanized watershed. This is achieved through installation of an inflatable air dam and diversion pump station.
Tertiary	Water Storage -- Groundwater- Recharge area developed	560	The captured urban runoff that is treated has the ability will be temprarily stored in a restored perenial lake system in the park. water will infiltrate into the upper aquifer to provide recharge to the groundwater supplies
Quaternary	Interpretive Enhancements- Educational	1	Interpretative areas within the natural treatment system for public education on stormwater pollution and treatement as well as watershed protection

Budget

Other Contribution	0
Local Contribution	1758795
Federal Contribution	0
Inkind Contribution	0
Amount Requested	1052778
Total Project Cost	2811573

Geographic Information

Latitude DD(+/-)	33	MM 42	SS 4
Longitude DD(+/-)	118	MM 0	SS 21
Longitude/Latitude Clarification	Location The northeast corner of Huntington Beach Central Parl		

County	Orange
Ground Water Basin	Coastal Plain Of Orange County
Hydrologic Region	South Coast
WaterShed	49 4801 Santa Ana River

Legislative Information

Assembly District	67th Assembly District,68th Assembly District,69th Assembly District,72nd Assembly District
Senate District	33rd Senate District,34th Senate District,35th Senate District

US Congressional District

District 40 (CA), District 46 (CA), District 47 (CA)

Section : Applicant Information and Question's Tab**APPLICANT INFORMATION AND QUESTION'S TAB****Q1. PROPOSAL DESCRIPTION**

Provide a brief abstract of the Proposal, including a listing of individual project titles or types. Please note which projects, if any, directly address a critical water supply or water quality issue for a DAC or Native American Tribal communities.

Thirteen lead agencies from across the region will be constructing projects that when complete will offset up to 1.5% of projected imported water demand for the region. These projects can be placed in three groups based on primary project benefits. It should be noted that these projects provide additional benefits beyond the primary benefit of the project. Two projects address groundwater recharge/ recycling. The Groundwater Replenishment System (GWRS)-Flow Equalization project will result in two flow equalization tanks to balance flows throughout the day to the GWRS system. The Sludge Dewatering, Odor Control, and Primary Sludge Thickening project will make improvements to a sewage treatment plant that will increase water available to the GWRS system. Five projects are flood management/ habitat with surface water quality improvements. The East Garden Grove Wintersburg Channel Urban Runoff Diversion project will divert dry weather runoff into a natural treatment system. The Romoland Line A Flood Project will result in two detention basins and additional flood channel. The Santa Ana Watershed Vireo Monitoring Program will provide information needed to manage riparian habitat and endangered species in riparian flood corridors. The Mill Creek Wetland Project will divert both wet and dry weather flows into a series of treatment ponds. The Cactus Basin Project will provide a flood basin that reduces local flooding and reduces the size for downstream facilities. Six projects addressing impaired groundwater basins and salt management are listed. The Inland Empire Brine Line Rehabilitation and Enhancement Project will increase the capacity of the line to transport from the inland region. The Arlington Desalter Interconnection Project will allow improved distribution of water from desalters. The Perris II Desalination Facility and Chino Creek Wellfield Development Projects will provide source water for brackish groundwater desalters. The Perchlorate Wellhead Treatment System Pipeline will connect contaminated drinking water wells to a treatment system. The Impaired Ground Water Recovery Project will also assist in recovering and treating contaminated groundwater sources. This project portfolio was developed from the OWOW IRWM plan ranked project list. All projects were objectively ranked using a mathematical decision tool based on criteria developed and weighted in relative importance by the OWOW Steering Committee. Among the OWOW priorities used in selecting projects was providing environmental justice (disadvantaged community) and tribal benefits. There are relatively few recognized tribal lands in the Santa Ana River Watershed. In preparation of the OWOW plan, staff met with the representatives of the major tribal communities. There were no top ranked OWOW projects providing tribal benefits in this implementation phase. The following five project proponents are providing a benefit to disadvantaged communities and have provided additional supporting documentation (Exhibit G): • Orange County Water District; • Orange County Sanitation District; • Santa Ana Watershed Association; • Eastern Municipal Water District, and; • West Valley Water District.

Q2. PROJECT DIRECTOR

Provide the name and details (including email) of the person responsible for executing the grant agreement for the applicant. Persons that are subcontractors to be paid by the grant cannot be listed as the Project Director.

Celeste Cantu; General Manager; Santa Ana Watershed Project Authority; Phone: (951) 354-4220; Fax: (951) 785-7076; Email: ccantu@sawpa.org

Q3. PROJECT MANAGEMENT

Provide the name and contact information (including email) of the Project Manager from the applicant agency or organization that will be the day-to-day contact on this application.

Mark R. Norton, P.E., LEED AP; Water Resources & Planning Manager; Santa Ana Watershed Project Authority; Phone: (951) 354-4221; Fax: (951) 785-7076; Email: mnorton@sawpa.org

Q4. APPLICANT INFORMATION

Provide the agency name, address, city, state, and zip code of the applicant submitting the application.

Santa Ana Watershed Project Authority; 11615 Sterling Avenue; Riverside, CA 92503; Phone: (951) 354-4220; Fax: (951) 352-3422

Q5. ADDITIONAL INFORMATION

Provide the funding area(s) in which projects are located.

http://www.water.ca.gov/irwm/integregio_fundingarea.cfm

Santa Ana Sub-region

Q6. RESPONSIBLE REGIONAL WATER QUALITY CONTROL BOARD(S)

List the name of the Regional Water Quality Control Board (RWQCB) in which your proposal is located. For a region that extends beyond more than one RWQCB boundary, list the name of each Board.

http://www.waterboards.ca.gov/waterboards_map.shtml

Santa Ana Regional Water Quality Control Board

Q7. ELIGIBILITY

Proposition 84 requires a minimum funding match of 25% of total project cost unless there is a DAC project included in the proposal. Requirements for DAC funding match reductions are included in Exhibit G of this PSP. If your matching funds are less than 25%, please explain.

The project portfolio exceeds the 25% local match requirement. The project portfolio has a non-state funding match of 91%. There are no projects in the portfolio with a match lower than 30%.

Q8. ELIGIBILITY

Does the application represent a single application from an IRWM Region approved in the RAP (see Section II.B, Table 1)? If yes, include the name of the IRWM Region. If not, explain.

SAWPA IRWM Region

Q9. ELIGIBILITY

Is the applicant a local agency or non-profit organization as defined in Appendix B of the Grant Guidelines?

- a) Yes
- b) No

Q10. ELIGIBILITY

List the urban water suppliers that will receive funding from the proposed grant. Those listed must submit self certification of compliance with CWC §525 et seq. and AB 1420. If there are none, so indicate and you do not have to answer Q11 and Q12.

The following urban water suppliers will receive funding in this proposal: 1) City of Huntington Beach 2) City of Corona 3) City of Ontario 4) Irvine Ranch Water District 5) Eastern Municipal Water District 6) West Valley Water District 7) Western Municipal Water District

Q11. ELIGIBILITY

Have all of the urban water suppliers, listed in Q10 above, submitted complete 2005 Urban Water Management Plans (UWMP) to DWR? Have those plans been verified as complete by DWR? If not, explain and provide the anticipated date for having a complete UWMP. Will all of the urban water suppliers listed in Q10, along with any additional urban water suppliers that meet the urban water supplier definition threshold for the first time, submit updated 2010 UWMPs, consistent with the 2010 UWMP Guidebook and verified as complete by DWR, before the execution of a grant agreement? If not, explain.

All urban water suppliers listed above have submitted complete Urban Water Management Plans to DWR. They have been submitted to SAWPA and are included in this proposal. All suppliers have indicated that they will complete their 2010 updates consistent with the 2010 Guidebook before execution of a grant agreement.

Q12. ELIGIBILITY

Have any urban water suppliers listed in Q10 recently submitted AB 1420 compliance tables and supporting documentation to DWR for a different grant program within the past three months? If so, please list the urban water supplier and the grant program. An urban water supplier must submit AB 1420 compliance documentation to DWR. If the urban water supplier has not submitted AB 1420 documentation, or that documentation was determined to be incomplete by DWR, the urban water supplier's projects will not be considered eligible for grant funding. Refer to Section IIIB of the Guidelines for additional information.

All urban water suppliers listed above have submitted AB 1420 compliance certifications to SAWPA.

Q13. ELIGIBILITY

Does the Proposal include any groundwater management or groundwater recharge projects or projects with potential groundwater impacts? If so, provide the name(s) of the project(s) and list the agency(ies) that will implement the project(s).

The Proposal includes 7 Groundwater projects or potential Groundwater Impacts. The names of the projects and the Agencies that will implement the projects are listed as follows: 1. Groundwater Replenishment System (GWRs) – Flow, Orange County Water District; 2. East Garden grove Wintersburg Channel Urban Runoff Diversion, City of Huntington Beach; 3. Romoland Line A flood System, City of Menifee; 4. Perris II Desalination Facility, Eastern Municipal Water District; 5. Perchlorate wellhead Treatment system Pipelines, West Valley Water District; 6. Chino Creek Wellfield Development, Western Municipal Water District; 7. Impaired groundwater Recovery, Irvine Ranch Water District.

Q14. ELIGIBILITY

For the agency(ies) listed in Q13, how has the agency complied with CWC §10753 regarding GWMPs, as described in Section IIIB of the Grant Guidelines?

The following table and attachments summarize Agency's compliance with CWC §10753 regarding GWMPs: 1. Orange County Water District - has GWMP; 2. City of Huntington Beach - participates in OCWD's GWMP; 3. Eastern Municipal Water District - Has GWMP; 4. City of Menifee - participates in EMWD's GWMP; 5. West Valley Water District - Upper Santa Ana , and is subject to 1961 Agreement; 6. Western Municipal Water District - Participates in Chino Basin Water Master and is subject to OBMP; 7. Irvine Ranch Water District - participates in OCWD's GWMP

Q15. ELIGIBILITY

Does the IRWM region receive water supplied from the Sacramento-San Joaquin Delta? Please answer yes or no. If no, please explain. If yes, please answer Question 16.

The Santa Ana River Watershed receives water from the Sacramento- San Joaquin Delta.

Q16. ELIGIBILITY

Does the existing IRWM Plan help reduce dependence on the Sacramento-San Joaquin Delta for water supply? Please answer yes or no. If no, please explain. If yes, please complete Attachment 15.

Yes, the adopted IRWM plan reduces dependence on the Sacramento- San Joaquin Delta. Attachment 15 has been completed.

Q17. ELIGIBILITY

If an update to the plan takes place in the near future, will the updated plan continue to reduce dependence on the Sacramento-San Joaquin Delta for water supply? Please answer yes or no. If no, please explain. If yes, please complete Attachment 15.

Yes, the updated IRWM will continue to reduce dependence on the Sacramento- San Joaquin Delta. Attachment 15 has been completed.

Section : Application Attachments Tab

APPLICATION ATTACHMENTS TAB

A1. ATTACHMENT 1

Upload Authorization and Eligibility documentation here. Ensure file name is consistent with section V of the Implementation Grant PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Att1_IG1_Eligible_1of3.pdf

Upload additional Authorization and Eligibility documentation here.

Last Uploaded Attachments: Att1_IG1_Eligible_2of3.pdf

Upload additional Authorization and Eligibility documentation here.

Last Uploaded Attachments: Att1_IG1_Eligible_3of3.pdf

Upload additional Authorization and Eligibility documentation here.

Upload additional Authorization and Eligibility documentation here.

A2. ATTACHMENT 2

Upload Proof of Formal Adoption documentation here. Ensure file name is consistent with section V of the Implementation Grant PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Att_2_IG1_Adopt_1ofTotal2.pdf

Upload additional Proof of Formal Adoption documentation here.
Last Uploaded Attachments: Att_2_IG1_Adopt_2ofTotal2.pdf

Upload additional Proof of Formal Adoption documentation here.

Upload additional Proof of Formal Adoption documentation here.

Upload additional Proof of Formal Adoption documentation here.

A3. ATTACHMENT 3

Upload the Work Plan here. Ensure file name is consistent with section V of the Implementation Grant PSP (disregard the 5 digit pin).
Last Uploaded Attachments: Att3_IG1_Workplan_1ofTotal1.pdf

Upload additional work plan components here.

Upload additional work plan components here.

Upload additional work plan components here.

Upload additional work plan components here.

A4. ATTACHMENT 4

Upload the Budget here. Ensure file name is consistent with section V of the Implementation Grant PSP (disregard the 5 digit pin).
Last Uploaded Attachments: Att4_IG1_Budget_1of1.pdf

Upload additional budget components here.

Upload additional budget components here.

Upload additional budget components here.

Upload additional budget components here.

A5. ATTACHMENT 5

Upload the Schedule here. Ensure file name is consistent with section V of the Implementation Grant PSP (disregard the 5 digit pin).
Last Uploaded Attachments: Att5_IG1_Schedule_1ofTotal1.pdf

Upload additional schedule components here.

Upload additional schedule components here.

Upload additional schedule components here.

Upload additional schedule components here.

A6. ATTACHMENT 6

Upload Monitoring, Assessment, and Performance Measures here. Ensure file name is consistent with section V of the Implementation Grant PSP (disregard the 5 digit pin).
Last Uploaded Attachments: Att6_IG1_Measures_1ofTotal1.pdf

Upload additional Monitoring, Assessment, and Performance Measures here.

Upload additional Monitoring, Assessment, and Performance Measures here.

Upload additional Monitoring, Assessment, and Performance Measures here.

Upload additional Monitoring, Assessment, and Performance Measures here.

A7. ATTACHMENT 7

Upload Economic Analysis - Water Supply Costs and Benefits here. Ensure file name is consistent with section V of the Implementation Grant PSP (disregard the 5 digit pin).
Last Uploaded Attachments: Att7_IG1_WSBen_1of1.pdf

Upload additional Economic Analysis - Water Supply Costs and Benefits documentation here.

Upload additional Economic Analysis - Water Supply Costs and Benefits documentation here.

Upload additional Economic Analysis - Water Supply Costs and Benefits documentation here.

Upload additional Economic Analysis - Water Supply Costs and Benefits documentation here.

A8. ATTACHMENT 8

Upload Water Quality and Other Expected Benefits here. Ensure file name is consistent with section V of the Implementation Grant PSP (disregard the 5 digit pin).
Last Uploaded Attachments: Att8_IG1_WQOtherBen_1of1.pdf

Upload additional Water Quality and Other Expected Benefits documentation here.

Upload additional Water Quality and Other Expected Benefits documentation here.

Upload additional Water Quality and Other Expected Benefits documentation here.

Upload additional Water Quality and Other Expected Benefits documentation here.

Section : Application Attachments Tab (cont)

APPLICATION ATTACHMENTS TAB (CONT)

A9. ATTACHMENT 9

Upload Economic Analysis - Flood Damage Reduction Costs and Benefits here. Ensure file name is consistent with section V of the Implementation Grant PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Att9_IG1_DReduc_1of1.pdf

Upload additional Economic Analysis - Flood Damage Reduction Costs and Benefits documentation here.

Upload additional Economic Analysis - Flood Damage Reduction Costs and Benefits documentation here.

Upload additional Economic Analysis - Flood Damage Reduction Costs and Benefits documentation here.

A10. ATTACHMENT 10

Upload Costs and Benefits Summary here. Ensure file name is consistent with section V of the Implementation Grant PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Att10_IG1_BSummary_1of1 .pdf

Upload additional Costs and Benefits Summary documentation here.

Upload additional Costs and Benefits Summary documentation here.

Upload additional Costs and Benefits Summary documentation here.

Upload additional Costs and Benefits Summary documentation here.

A11. ATTACHMENT 11

Upload Program Preference documentation here. Ensure file name is consistent with section V of the Implementation Grant PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Att11_IG1_Preference_1ofTotal1.pdf

Upload additional Program Preference documentation here.

Upload additional Program Preference documentation here.

Upload additional Program Preference documentation here.

Upload additional Program Preference documentation here.

A12. ATTACHMENT 12

Upload Disadvantaged Community Assistance documentation here. Ensure file name is consistent with section V of the Implementation Grant PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Att12_IG1_DAC_1ofTotal1.pdf

Upload additional Disadvantaged Community Assistance documentation here.

Upload additional Disadvantaged Community Assistance documentation here.

Upload additional Disadvantaged Community Assistance documentation here.

Upload additional Disadvantaged Community Assistance documentation here.

A13. ATTACHMENT 13

Upload AB 1420 and Water Meter Compliance documentation here. Ensure file name is consistent with section V of the Implementation Grant PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Att13_IG1_AB1420_1ofTotal1.pdf

Upload additional AB 1420 and Water Meter Compliance documentation here.

Upload additional AB 1420 and Water Meter Compliance documentation here.

Upload additional AB 1420 and Water Meter Compliance documentation here.

Upload additional AB 1420 and Water Meter Compliance documentation here.

A14. ATTACHMENT 14

Upload Consent Form here. Ensure file name is consistent with section V of the Implementation Grant PSP (disregard the 5 digit pin).

Upload additional Consent Form documentation here.

Upload additional Consent Form documentation here.

Upload additional Consent Form documentation here.

Upload additional Consent Form documentation here.

A15. ATTACHMENT 15

Upload IRWM Plan - Reduce Delta Water Dependence documentation here. Ensure file name is consistent with section V of the Implementation Grant PSP (disregard the 5 digit pin). For the "AttachmentName" in the naming convention of BMS, use "Delta" for this attachment.

Last Uploaded Attachments: Att15_IG1_Delta_1ofTotal1.pdf

Upload additional IRWM Plan - Reduce Delta Water Dependence documentation here.

Upload additional IRWM Plan - Reduce Delta Water Dependence documentation here.

Upload additional IRWM Plan - Reduce Delta Water Dependence documentation here.

Last Uploaded Attachments: Att 15_5 Excluded Projects.zip

Upload additional IRWM Plan - Reduce Delta Water Dependence documentation here.
